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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/626,948
	Filing Date	July 25, 2003
	First Named Inventor	Eisentraeger
	Group Art Unit	2131
	Examiner Name	
Total Number of Pages in This Submission		Attorney Docket Number MS1-1276US

ENCLOSURES (check all that apply)		
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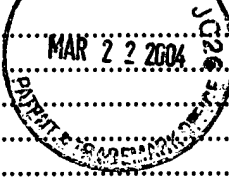
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Firm or Individual name	Thomas A. Jolly, Reg. No. 39,241
Signature	
Date	3/17/2004

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1 **IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

2 Serial No.10/626,948
3 Filing DateJul 25, 2003
4 InventorshipEisentraeger
5 ApplicantMicrosoft Corporation
6 Attorney's Docket No.MS1-1276US
7 Title: **Squared Weil and Tate Pairing Techniques for Use with Elliptic Curves**



8 **INFORMATION DISCLOSURE STATEMENT**

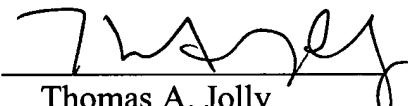
9 *References -- See Attached Form PTO-1449*

10 **REMARKS**

11 The citations listed, copies attached, are submitted in compliance with the
12 duty of disclosure defined in 37 CFR §1.56. The Examiner is requested to make
13 these citations of official record in this application.

14 Respectfully Submitted,

15 Date: 3/17/2004

16 By: 
17 Thomas A. Jolly
18 Reg. No. 39,241

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Substitute for form 1449B/PTO

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(use as many sheets as necessary)

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1

of

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Complete if Known

Application Number	10/626,948
Filing Date	July 25, 2003
First Named Inventor	Eisentraeger
Group Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	MS1-1276US

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		EISENTRAGER, KIRSTEN et al., "Fast Elliptic Curve Arithmetic and Improved Weil Pairing Evaluation," Topics in Cryptology, CT-RSA 2003, Marc Joye (Ed), pp. 343-354, LNCS 2612, Springer-Verlag, 2003.	
		BONEH, DAN, et al., "Identity-Based Encryption from the Weil Pairing," SIAM J. COMPUT., Vol 32, No. 3, pp. 586-615, 2003 Society for Industrial and Applied Mathematics.	
		MENEZES, ALFRED J., et al., "Reducing Elliptic Curve Logarithms to Logarithms in a Finite Field," (0018-9448/93 1993 IEEE, IEEE Transactions on Information...), 8 pages.	
		FREY, GERHARD et al., "A Remark Concerning m-Divisibility and the Discrete Logarithm in the Divisor Class Group of Curves," Mathematics of Computation, Vol. 62, No. 206, April 1994, pp. 865-874.	
		HESS, FLORIAN et al., "Two Topics in Hyperelliptic Cryptography," S. Vaudenay & A. Youssef (Eds.): SAC 2001, LNCS 2259, pp. 181-189, 2001.	
		BONEH, DAN, et al., "Short signatures from the Weil pairing," pp. 1-17.	
		GALBRAITH, STEVEN D. et al., "Implementing the Tate Pairing," Mathematics Dept., Royal Holloway, University of London, Egham, Surrey, UK & Hewlett-Packard Laboratories, Bristol, Filton Road, Stoke Gifford, Bristol, UK, pp. 1-14.	
		CANTOR, DAVID G., "Computing in the Jacobian of a Hyperelliptic Curve," Mathematics of Computation, Vol. 48, No. 177, January 1987, pp. 95-101.	
		BARRETO, PAULO S.L.M., et al., "Efficient Algorithms for Pairing-Based Cryptosystems," Universidade de Sao Paulo, Escola Politecnica, Sao Paulo (SP), Brazil & Computer Science Department, Stanford University, USA, pp. 1-16.	
		JOUX, ANTOINE, "The Weil and Tate Pairings as Building Blocks for Public Key Cryptosystems (Survey)," C. Fieker and D.R. Kohel (eds.): ANTS 2002, LNCS 2369, pp. 20-32, 2002 (Springer-Verlag Berlin Heidelberg 2002).	

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¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

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